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20413 Designing and Implementing a Server Infrastructure

Course Duration: 5 days

Overview: This course provides you with the skills and knowledge needed to plan, design, and deploy a physical and logical Windows Server 2012 Active Directory Domain Services (AD DS) infrastructure.

Outline:

Lesson 1 - Planning Server Upgrade and Migration
Upgrade and Migration Considerations
Creating a Server Upgrade and Migration Plan
Planning for Virtualization
Lab : Planning Server Upgrade and Migration

Lesson 2 - Planning and Implementing a Server Deployment Infrastructure
Selecting an Appropriate Server Imaging Strategy
Selecting a Deployment Automation Strategy
Implementing an Automated Deployment Strategy
Lab : Planning and Implementing a Server Deployment Infrastructure

Lesson 3 - Designing and Maintaining an IP Configuration and Address Management Solution
Designing and Implementing DHCP
Planning and Implementing DHCP Scopes
Planning and Implementing an IPAM Provisioning Strategy
Lab : Designing and Maintaining an IP Configuration and IP Address Management Solution

Lesson 4 - Designing and Implementing Name Resolution
Designing a DNS Server Implementation Strategy
Designing the DNS Namespace
Designing and Implementing DNS Zones
Designing and Configuring DNS Zone Replication and Delegation
Optimizing DNS Servers
Designing DNS for High Availability and Security
Lab : Designing and Implementing Name Resolution

Lesson 5 - Designing and Implementing an Active Directory Domain Services Forest and Domain Infrastructure
Designing an AD DS Forest
Designing and Implementing AD DS Forest Trusts
Designing and Implementing AD DS Domains
Designing DNS Namespaces in AD DS Environments
Designing AD DS Domain Trusts
Lab : Designing and Implementing an AD DS Forest Infrastructure
Lab : Designing and Implementing an AD DS Domain Infrastructure

Lesson 6 - Designing and Implementing an OU Infrastructure and AD DS Permissions Model
Planning the AD DS Administrative Tasks Delegation Model
Designing the OU Structure

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Designing and Implementing an AD DS Group Strategy
Lab : Designing and Implementing an AD DS OU Infrastructure and AD DS Delegation Model

Lesson 7 - Designing and Implementing a Group Policy Object Strategy
Gathering the Information Required for a GPO Design
Designing and Implementing GPOs
Designing GPO Processing
Planning Group Policy Management
Lab : Designing and Implementing Group Policy Object Strategy

Lesson 8 - Designing and Implementing an AD DS Physical Topology
Designing and Implementing AD DS Sites
Designing AD DS Replication
Designing the Placement of Domain Controllers
Virtualization Considerations for Domain Controllers
Designing Highly-Available Domain Controllers
Lab : Designing and Implementing an AD DS Physical Topology

Lesson 9 - Planning and Implementing Storage
Storage Considerations
Planning and Implementing iSCSI SANs
Lab : Planning and Implementing Storage

Lesson 10 - Planning and Implementing File Services
Planning and Implementing a Distributed File System
Planning and Implementing BranchCache
Planning and Implementing Dynamic Access Control
Lab : Designing and Implementing File Services

Lesson 11 - Designing and Implementing Network Access Services
Designing and Implementing Remote Access Services
Designing RADIUS Authentication by Using a Network Policy Server
Designing a Perimeter Network
Planning and Implementing DirectAccess
Lab : Designing and Implementing Network Access Services

Lesson 12 - Designing and Implementing Network Protection
Overview of Network Security Design
Identifying and Mitigating Common Network Security Threats
Designing and Implementing a Windows Firewall Strategy
Designing and Implementing a Network Access Protection Infrastructure
Lab : Designing and Implementing Network Protection

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